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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/829,133	04/09/2001	Erol Tan	RAY4066P0016US	1047
32116 75	590 · 06/23/2003			
WOOD, PHILLIPS, KATZ, CLARK & MORTIMER			EXAMINER	
500 W. MADISON STREET SUITE 3800		//	PRATT, CHRISTOPHER C	
CHICAGO, IL	. 60661		ART UNIT	PAPER NUMBER
			1771	1.
			DATE MAILED: 06/23/2003	1//

Please find below and/or attached an Office communication concerning this application or proceeding.

7.		4				
**	Applicati n N .	Applicant(s)				
Office Action Commence	09/829,133	TAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Christopher C Pratt	1771				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply within the statutory minimum of thirty (3 rill apply and will expire SIX (6) MONTHS cause the application to become ABANI	be timely filed 0) days will be considered timely. 6 from the mailing date of this communication. DONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 07 A	<u>pril 2003</u> .	,				
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under I Disposition of Claims						
4)⊠ Claim(s) <u>12-14,18,21,25,30-32,34,35,39,45 an</u>	nd 48 is/are pending in the ag	oplication.				
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>12-14,18,21,25,30-32,34,35,39,45 and 48</u> is/are rejected.						
7) Claim(s) is/are objected to.	☐ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) accep	ted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the	- · ·	• •				
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in rep	•					
12) The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120		40()()				
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
a) ☐ All b) ☑ Some * c) ☐ None of:						
1. ☐ Certified copies of the priority documents						
	 2. Certified copies of the priority documents have been received in Application No. <u>09/341,340</u>. 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
application from the International Bur * See the attached detailed Office action for a list of the prior and the international Bur * See the attached detailed Office action for a list of the prior application from the	eau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language pro 15)☒ Acknowledgment is made of a claim for domestic 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4-1	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152) .				
						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 12-14, 18, 21,25, 30-32, 34-35, 39, 45, are 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leithem (WO 95/20066) in view of Berg et al (4685909) and Tyler et al (4919681).

Leithem is concerned with the creation of an absorbent material consisting essentially of a nonwoven mixture of pulp fibers and superabsorbent polymer (p. 7, lines 6-8). Leithem teaches a kappa value below 100 (example 3). Leithem is silent with respect to the ratio of pulp to superabsorbent and density of the fabric.

Berg is concerned with the creation of a nonwoven fabric comprising a mixture of superabsorbent polymer and pulp fibers (col. 4, lines 45-49). Berg teaches applicant's claimed ratio of superabsorbent to pulp (col. 6, lines 36-38). Berg also teaches applicant's claimed density (col. 6, lines 53-62). It would have been obvious to a person having ordinary skill in the art to fill in the gaps in Leithem's teachings with those of Berg. The skilled artisan would have been motivated to utilize the ratio and density taught by Berg by the desire to improve the absorptive capability of Leithem's fabric.

Leithem is silent with respect to the crystallinity of the fibers. Tyler is concerned with the creation of a nonwoven cellulosic fabric (abstract). Tyler teaches that reduced

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crystallinity increases absorptive capability (col. 2, lines 48-51). If Leithem's crystallinity is not inherently below 65% then it would have been obvious to a person having ordinary skill in the art to decrease the crystallinity of Leithem's cellulosic fibers in order to increase absorption.

With respect to applicant's claimed suppleness, drying power, and wicking energy, Leithem does not specifically refer to these properties. However, because the fabric created by the combination set forth above utilizes the same materials in the same proportions as the fabric of the instant claims, these properties are inherent in said combination.

In the alternative, it would have been obvious to a person having ordinary skill in the art to increase supplensess, drying power, and wicking energy. The skilled artisan would have been motivated to increase these properties by the desire to optimize the tactile properties and absorbency of the fabric.

With respect to claim 25, Leithem teaches applicant's claimed process of treating pulp fibers (p. 4, lines 11-24).

With respect to basis weight, it would have been well within the level of ordinary skill in the art to reduce the size of the absorbent material. The skilled artisan would have been motivated to reduce the size of the fabric in order to render the material suitable for smaller applications.

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Conclusion

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Pratt whose telephone number is 703-305-6559. The examiner can normally be reached on Monday - Friday from 7 am to 4 pm.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on 703-308-2414. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Christopher C. Pratt June 16, 2003

10/110/2003